



Inc. 1910

Public Works

60 S Main St | PO Box 48 - Driggs, ID 83422 | Ph: 208-354-2362 | Fax: 208-354-8522 | www.driggs.govoffice.com

PRELIMINARY WASTEWATER TOXICITY TESTING PLAN - 03/14/2017

Goals:

1. Confirm design engineer's (Aqua) and Responsible in Charge's (Jared) assumption that toxicity in the Wastewater Treatment Plant (WWTP) influent is killing the nitrifiers in the WWTP therefore causing elevated ammonia in the WWTP effluent.
2. Identify the type of toxicity
3. Identify the source of toxicity

Equipment/Testing Methods:

1. 24hr continuous sampler
2. Strattox respirometer
3. XXX Laboratory

Step 1: Confirm toxicity in the influent and eliminate Victor/Teton County as a possible source.

- a. Place 24hr continuous samplers concurrently at the WWTP Headworks and the Driggs South Lift Station.
- b. Test samples and record sample results daily from both locations until a toxic event is recorded at either location.
 - a. If after 14 days of testing, no toxicity is noted stop testing and re-evaluate toxicity assumption.
 - b. If toxicity is found only in the WWTP and not at the South Lift Station, assume toxicity is from within the City of Driggs. Proceed with Service Area Testing Plan.
 - c. If toxicity is found at the WWTP and South Lift Station Proceed to Step 2.

Step 2: Eliminate Victor or Teton County as a possible source, identify type of toxicity

- a. Place 24hr continuous samplers concurrently at the Driggs South Lift Station and City of Victor sewer interceptor connection
- b. Test samples and record sample results daily from both locations until a toxic event is recorded at either location.
 - a. If after 14 days of testing, no toxicity is noted stop testing and re-evaluate toxicity assumption.
 - b. If toxicity is found only in the South Lift Station and not at the City of Victor, assume toxicity is from within Teton County. test sample for type of toxicity, proceed with Service Area Testing Plan.
 - c. If toxicity is found at the City of Victor and South Lift Station, test sample for type of toxicity and work with the City of Victor to implement Service Area Testing Plan.